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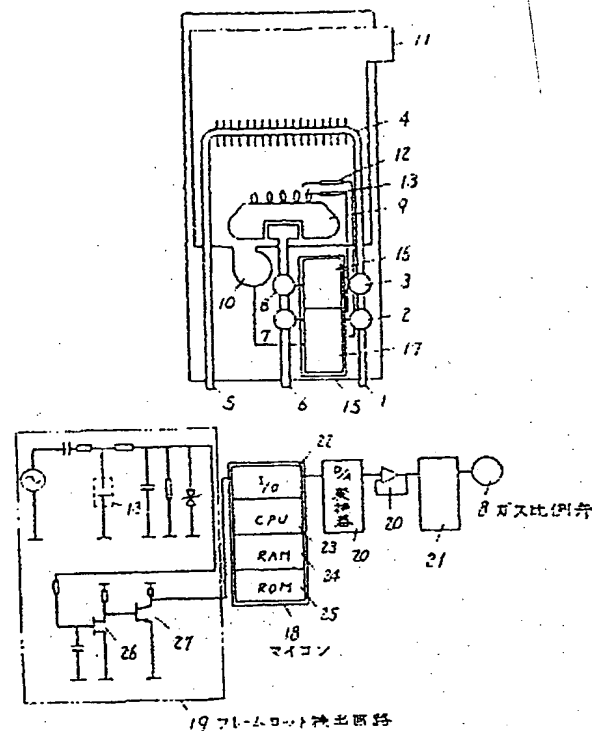
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APPLICATION NUMBER : 63172125

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TITLE : CONTROL DEVICE FOR HOT WATER
SUPPLY EQUIPMENT



ABSTRACT : **PURPOSE:** To improve the next ignition performance by driving a fuel supply control device based on signals transmitted from a fuel decision device, changing the values between the upper limit and the lower limit in an effort to look for a proper ignition point, then igniting, and storing the data obtained during ignition.

CONSTITUTION: When flowing water is detected by a control device 15 or another control device 18, a fan 10 is adapted to rotate once at the highest rotary speed for about 2min, then the rotary speed of the fan is controlled so that it may be slower and the most suitable for ignition. When a timer is then started, an attempt is made to discharge from an ignition plug 12 by another control device 17. After that, a gas solenoid valve 7 is opened, and a gas proportional valve 8 is driven by manipulating a gas proportional valve drive means 16 so as to obtain a gas volume which stands between the upper limit value and the lower limit value in terms of a ratio of theoretical air and gas. The control device 17 is adapted to store the quantity of gas at that time based on signals transmitted from a flame rod 13 so that the discharge of the ignition plug may come to a halt, thereby carrying out the combustion continuously. This construction makes it possible to change the density of gas during ignition so to obtain the density of gas required for the next ignition, and hence ignite definitely in short time.

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